PATENT COOPERATION TO





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference P27120/WO Kf	FOR FURTHER A	ACTION	See Form PCT/IPEA/416			
International application No.	International filing d	late (day/month/year)	Priority date (day/month/year)			
PCT/EP2003/012248	03 November 2	003 (03.11.2003)	05 November 2002 (05.11.2002)			
International Patent Classification (IPC) or n F04B 1/20	ational classification a	and IPC	· ·			
Applicant						
BRUENINGHAUS HYDROMATIK GMBH						
This report is the international prelin Authority under Article 35 and trans.	ninary examination rep mitted to the applicant	port, established by this according to Article 36	International Preliminary Examining			
	2. This REPORT consists of a total of5 sheets, including this cover sheet.					
3. This report is also accompanied by A		-				
a (sent to the applicant and	to the International Bi	ureau) a total of	sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.						
b. (sent to the Internation	al Bureau only) a	total of (indicate typ	e and number of electronic carrier(s))			
readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This report contains indications relating to the following items:						
Box No. I Basis of the rep	oort					
Box No. II Priority	Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
Box No. IV Lack of unity or						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects	in the international ap	plication				
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of	this report			
19 April 2004 (19.04.2004)		09 Nov	09 November 2004 (09.11.2004)			
Name and mailing address of the IPEA/EP		Authorized officer				
Facsimile No.		Telephone No.				

Translation



International application No.

PCT/EP2003/012248

Box No). I	Basis of the report	
1. With othe	regard	to the language, this report is based on the international application in the languaged under this item.	uage in which it was filed, unless
	This whic	report is based on translations from the original language into the following h is language of a translation furnished for the purpose of:	language,
		international search (under Rules 12.3 and 23.1(b))	
		publication of the international application (under Rule 12.4)	
		international preliminary examination (under Rules 55.2 and/or 55.3)	
furni	shed to are not	to the elements of the international application, this report is based on (r the receiving Office in response to an invitation under Article 14 are referred annexed to this report): ternational application as originally filed/furnished	eplacement sheets which have been to in this report as "originally filed"
		scription:	
	pages	1-10	on originally filed form intend
	pages		, as originally filed/furnished
	pages		
\boxtimes	the cla		
	pages	1-14	, as originally filed/furnished
	pages'	, as amended (togeth	her with any statement) under Article 19
	pages'		
	pages'	received by this Authority on	
\boxtimes	the dra	wings:	
	pages	1/3-3/3	, as originally filed/furnished
	pages*		
	pages*	received by this Authority on	
	a sequ	ence listing and/or any related table(s) - see Supplemental Box Relating to Seque	ence Listing.
3.	The an	nendments have resulted in the cancellation of:	
		he description, pages	
	===	he claims, Nos.	
	\equiv		,
		he sequence listing (specify):	
	Ш,	any table(s) related to sequence listing (specify):	·
4	(Rule 7	port has been established as if (some of) the amendments annexed to this reposince they have been considered to go beyond the disclosure as filed, as inc (0.2(c)). the description, pages	ort and listed below had not been licated in the Supplemental Box
* If iten	ı 4 appı	ies, some or all of those sheets may be marked "superseded."	

ELIMINARY EXAMINATION REPORT

ternational application No. PCT/EP 03/12248

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Statement						
	Novelty (N)	Claims	1-14	YES			
		Claims		NO			
	Inventive step (IS)	Claims	1-14	YES			
		Claims		NO			
	Industrial applicability (IA)	Claims	1-14	YES			
		Claims		NO NO			
	Citations and explanations						

Reference is made to the following document:

D1: DE 43 40 061 A.

Document D1, which is considered the closest prior 1. art, discloses a control plate for an axial piston machine according to the preamble of claim 1.

The features of the characterizing part of claim 1 are novel and consequently claim 1 meets the requirements for novelty of PCT Article 33(2).

The control plate according to claim 1 differs from 2. that of document D1 in that the radially inner edge (47) of the control plate (20) is in the form of a centering surface (29) which centres the control plate (20) on a centering body (7) situated on the housing side, and in that the centering surface (29) consists of several part surfaces (29.1, 29.2, 29.3), which are embodied on segments (43.1, 43.2, 43.3) of the inner edge (47) of the control plate (20) which extend radially inward into the passage (38) and are separated by recesses (36.1, 36.2, 36.3).

The problem to be solved by the invention is that of simplifying the processing of the control plate and reducing component weight. There was no reason for a person skilled in the art to redesign the passage in the control plate of an axial piston machine of the kind in question so as to permit the centering of the control plate along its inner edge.

Consequently, the subject matter of claim 1 involves an inventive step (PCT Article 33(3)).

- 3. Independent claim 8 discloses an axial pistol machine having a control plate according to claim 1. As a result, the subject matter of claim 8 is novel and inventive.
- 4. Claims 2-7 and 9-14 are dependent on claims 1 and 8 and therefore likewise meet the PCT requirements for novelty and inventive step.